APPROVED O.G. FIG.

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M G T P A Q I L G F ATG GGG GCC CCT GCT CAG ATT CTT GGG TTC L L L F P G T R C TTG TTG CTC TTG TTT CCA GGT ACC AGA TGT (leader, -20-1)

D I Q M T Q S P S S GAC ATC CAG ATG ACC CAG TCT CCA TCC TCC L S A S L G Q R V S TTA TCT GCC TCT CTG GGA CAA AGA GTC AGT L T C CTC ACT TGT (fr. 1, 1-23)

R A S Q D I G I N L CGG GCA AGT CAG GAC ATT GGT ATT AAC TTA H CAT (cdr1, 24-34)

T L Q Q E P D G T I
TGG CTT CAG CAG GAA CCA GAT GGA ACT ATT

K R L I Y
AAA CGC CTG ATC TAC (fr2., 35-49)

A T S S L G S GCC ACA TCC AGT TTA GGT TCT (cdr2, 50-56)

G V P K R F S G S R G G AGT AGG

S G S D Y S L T I S AGC

S L E S G D F V ACC ATC AGC

AGC CTT GAG TCT GAA GAT TTT GTA GCC TAT

Y C TAC TGT (fr3, 57-88)

L Q Y A S S P Y T CTA CAA TAT GCT AGT TCT CCG TAC ACG (cdr3, 89-97)

F G G G T K L E I K TTC GGA GGG GGG ACC AAG CTG GAA ATA AAA (fr4, 98-107)

R A D A A P T V S I CGG GCT GAT GCT GCA CCA ACT GTA TCC ATC F P P S S K L G TTC CCA CCA TCC AGT AAG CTT GGG

### FIG. 1

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M E C S W V F L F L L S I T T G V ATG GAA TGC AGC TGG GTC TTT CTC TTC CTC CTG TCA ATA ACT ACA GGT GTC Met Glu Cys Ser Trp Val Phe Leu Phe Leu Leu Ser Ile Thr Thr Gly Val H S CAC TCC His Ser (leader)

Q A Y L Q Q S G A E L V R S CAG GCT TAT CTA CAG CAG TCT GGG GCT GAG CTG GTG AGG TCT GIn Ala Tyr Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser

G A S V K M S C K A S G Y T L T GGG GCC TCA GTG AAG ATG TCC TGC AAG GCT TCT GGC TAC ACA TTG ACC Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Leu Thr (1-30. Fr. #1)

S Y N M H AGT TAC AAT ATG CAC Ser Tyr Asn Met His (31-35, CDR 1)

W V K Q T P G Q G L E W I G TGG GTA AAG CAG ACA CCT GGA CAG GGC CTG GAA TGG ATT GGA Trp Val Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp Ile Gly (36-49, Fr. #2)

N I F P G N G D T Y Y N Q K F K G AAT ATT TTT CCT GGA AAT GGT GAT ACT TAC TAC AAT CAG AAG TTT AAG GGC Asn Ile Phe Pro Gly Asn Gly Asp Thr Tyr Tyr Asn Gln Lys Phe Lys Gly (50-66, CDR 2)

K A S L T A D T S S S T A Y M Q AAG GCC TCA TTG ACT GCA GAC ACA TCC TCC AGC ACA GCC TAC ATG CAG Lys Ala Ser Leu Thr Ala Asp Thr Ser Ser Ser Thr Ala Tyr Met Gln  $\,$ 

I S S L T S E D S A V Y F C A R ATC AGC AGC CTG ACA TCT GAA GAC TCT GCG GTC TAT TTC TGT GCA AGA Ile Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg (67-98, Fr. #3)

G N W E G A L D Y GGG AAC TGG GAG GGT GCT CTG GAC TAC Gly Asn Trp Glu Gly Ala Leu Asp Tyr (99-107, CDR 3)

W G Q G T S V T V S S TGG GGT CAA GGA ACC TCA GTC ACC GTC TCC TCA Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser (108-118, Fr. #4)

A K T T P P P V Y P L V P G S L GCC AAA ACG ACA CCC CCA CCC GTC TAT CCA CTG GTC CCT GGA AGC TTG GG Ala Lys Thr Thr Pro Pro Pro Val Tyr Pro Leu Val Pro Gly Ser Leu (constant region)

### FIG. 2

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DIQMTQSPSSLSASLGQRVSLTC — Framework #1, 1–23

RASQDIGINLH — CDR-1, 24-34

TLQQEPDGTIKRLIY — Framework #2, 35-49

ATSSLGS — CDR-2, 50-56

GVPKRFSGSRSGSDYSLTISSLESGDFVAYYC — Framework #3, 57–88

LQYASSPYT — CDR-3, 89-97

FGGGTKLEIK — Framework #4, 98-107

FIG. 3A

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QAYLQQSGAELVRSGASVKMSCKASGYTLT — Framework #1, 1–30

SYNMH — CDR-1, 31–35

WVKQTPGQGLEWIG — Framework #2, 36-49

NIFPGNGDTYYNQKFKG — CDR-2, 50–66

KASLTADTSSSTAYMQISSLTSEDSAVYFCAR — Framework #3, 67–98

GNWEGALDY — CDR-3, 99–107

WGQGTSVTVSS — Framework #4, 108-118

FIG. 3B

APPROVED O.G. FIG. CLASS SUBCLAS DRAFTSMAN WO 97 22699

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>gb|L41880|MUSIKCC Mus musculus immunoglobulin kappa chain mRNA, 5' end of cds.

- 67 GACATCCAGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAGTCAGT 126
- 127 CTCACTTGTCGGGCAAGTCAGGACATTGGTAGTAGCTTAAACTGGCTTCAGCAGGAACCA 186
- 187 GATGGAACTATTAAACGCCTGATCTACGCCACATCCAGTTTAGATTCTGGTGTGCCCAAA 246
- 247 AGGTTCAGTGGCAGTAGGTCTGGGTCAGATTATTCTCTCACCATCAGCAGCCTTGAGTCT 306 307 GAAGATTTTGTAGACTATTACTGTCTACAATATGCTAGTTCTCCGTACACGTTCGGAGGG 366
- 367 GGGACCAAGCTGGAAATAAAA 387
- >gb|L48667|MUSX Mus musculus (cell line C3H/F2-15) chromosome 6 anti-DNA antibody light chain mRNA.
  - 1 GANATCCAGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAGTCAGT 60
  - 61 CTCACTTGTCGGGCAAGTCAGGACATTGGTAGTAGCTTAAACTGGCTTCAGCAGGAACCA 120
  - 121 GATGGAACTTTTAAACGCCTGATCTACGCCACATCCAGTTTAGATTCTGGTGTCCCCAAA 180
  - 181 AGGTTCAGTGGCAGTAGGTCTGGGTCAGATTATTCTCTCACCATCAGCAGCCTTGAGTCT 240
  - 241 GAAGATTTTGTAGACTATTACTGTCTACAATATGCTAGTTGTCCGTACACGTTCGGAGGG 300
  - 301 GGGACCAAGCTGGAAATAAAA 321
- >gb|J00565|MUSIGKAC1 Mouse ig kappa active gene: vk41 v-j region.

  - 313 GACATCCAGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAGTCAGT 372 373 CTCACTTGTCGGGCAAGTCAGGACATTGGTAGTAGCTTAAACTGGCTTCAGCAGGAACCA 432
  - 433 GATGGAACTATTAAACGCCTGATCTACGCCACATCCAGTTTAGATTCTGGTGTCCCCAAA 492
  - 493 AGGTTCAGTGGCAGTAGGTCTGGGTCAGATTATTCTCTCACCATCAGCAGCCTTGAGTCT
  - 553 GAAGATTTTGTAGACTATTACTGTCTACAATATGCTAGTTCTCCGTGGACGTTCGGTGGA 612
  - 613 GGCACCAAGCTGGAAATCAAA 633
- >emb|V00808|MMIGK7 Part of the murine gene for kappa-immunoglobulin leader peptide and variable part (cell line MOPC41).
  - 314 GACATCCAGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAGTCAGT 373
  - 374 CTCACTTGTCGGCCAAGTCAGGACATTGGTAGTAGCTTAAACTGGCTTCAGCAGGAACCA 433
  - 434 GATGGAACTATTAAACGCCTGATCTACGCCACATCCAGTTTAGATTCTGGTGTCCCCAAA 493 494 AGGTTCAGTGGCAGTAGGTCTGGGTCAGATTATTCTCTCACCATCAGCAGCCTTGAGTCT 553
  - 554 GAAGATTTTGTAGACTATTACTGTCTACAATATGCTAGTTCTCCGTGGACGTTCGGTGGA 613
  - 614 GGCACCAAGCTGGAAATCAAA 634
- >gb|I03643|I03643 Sequence 4 from patent US 4642334.
  - 1 GACATCCAGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAGTCAGT 60
  - 61 CTCACTTGTCGGCCAAGTCAGGACATTGGTAGTAGCTTAAACTGGCTTCAGCAGGAACCA 120
  - 121 GATGGAACTATTAAACGCCTGATCTACGCCACATCCAGTTTAGATTCTGGTGTCCCCAAA 180
  - 181 AGGTTCAGTGGCAGTAGGTCTGGGTCAGATTATTCTCTCACCATCAGCAGCCTTGAGTCT
  - 241 GAAGATTTTGTAGACTATTACTGTCTACAATATGCTAGTTCTCCGTGGACGTTCGGTGGA 300
  - 301 GGCACCAAGCTGGAAATCAAA 321
- >gb|M59920|MUSIGKAA3 Mouse IG germline chain mRNA V-J region, partial cds.

  - 61 ACTTGTCGGGCAAGTCAGGACATTGGTAGTAGCTTAAACTGGCTTCAGCAGGAACCAGAC 120
  - 121 GGAACTATTAAACGCCTGATCTACGCCACATCCAGTTTAGATTCTGGTGTCCCCAAAAGG 180
    181 TTCAGTGGCAGTAGGTCTGGGTCAGATTATTCTCTCACCATCAGCAGCCTTGAGTCTGAA 240
    241 GATTTTGTAGACTATTACTGTCTACAATATGCTAGTTCTCCGTGGACGTTCGGTGGAGGC 300

  - 301 ACCAAGCTGGAAATCAAA 318

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>gb M36246 MUSIGLAFA	Mouse	Ιg	kappa-	-chain	mRNA	٧	region,	partial	cds.	from
	hybric									

- >emb|Z22118|MDIGKVBS M.domesticus IgK variable region.
  - 1 GACATCCAGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAGTCAGT 60
    61 CTCACTTGTCGGGCAAGTCAGGAAATTAGTGGTTACTTAAGCTGGCTTCAGCAGAAACCA 120
    121 GATGGAACTATTAAACGCCTGATCTACAGCACATCCACTTTAAATTCTGGTGTCCCAAAA 180
    181 AGGTTCAGTGGCAGTAGGTCTGGGTCAGATTATTCTCTCACCATCAGCAGCCTTGAGTCT 240
    241 GAAGATTTTGCAGACTATTACTGTCTACAATATGCTAGTTCTCCGTACACGTTCGGAGGG 300
    301 GGGACCAAACTGGAAATAAAA 321
- >gb|M64168|MUSIGKAFT Mouse Ig active kappa-chain mRNA V-region.
- >emb|X02177|MMIGGVJ1 M.musculus mRNA for IgG kappa light chain(partial) Cloop 1
  - 42 GACATCCAGATGACCCAGTCTCCATCCTCCTTATCTGCCTCTCTGGGAGAAAGAGTCAGT 101
    102 CTCACTTGTCGGGCAAGTCAGGAAATTAGTGGTTACTTAAGCTGGCTTCAGCAGAAACCA 161
    162 GATGGAACTATTAAACGCCTGATCTACGCCGCATCCACTTTAGATTCTGGTGTCCCAAAA 221
    222 AGGTTCAGTGGCAGTAGGTCTGGGTCAGATTATTCTCTCACCATCAGCAGCCTTGAGTCT 281
    282 GAAGATTTTGCAGACTATTACTGTCTACAATATCTTAGTTATCCGCTCACGTTCGGTGCT 341
    342 GGGACCAAGCTGGAGCTGAAA 362

FIG. 4B

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>gb|L48668|MUSY Mus musculus (cell line C3H/F2-20) chromosome 12 anti-DNA antibody heavy chain mRNA.

- 1 CAGGCTTATNTACAGCAGTCTGGGGCTGAGCTGGTGAGGCCTGGGGCCTCAGTGAAGATG 60 61 TCCTGCAAGGCTTCTGGCTACACATTTACCAGTTACAATATGCACTGGGTAAAGCAGACA 120
- 121 CCTAGACAGGGCCTGGAATGGATTGGAGCTATTTATCCAGGAAATGGTGATACTTCCTAC 180
- 181 AATCAGAAGTTCAAGGGCAAGGCCACACTGACTGTAGACAAATCCTCCAGCACAGCCTAC 240
- 241 ATGCAGCTCAGCAGCCTGACATCTGAAGACTCTGCGGTCTATTTCTGTGCAAGA 294
- ...... 311 295
- 312 TGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA 357

>gb|L48680|MUSAL Mus musculus (cell line C3H/F2-3) chromosome 12 anti-DNA antibody heavy chain mRNA.

- 1 CAGGCTTATGTACAGCAGTCTGGGGCCTGAGCTGAGCCTGGGGCCTCAGTGAAGATG 60
- 61 TCCTGCAAGGCTTCTGGCTACAGATTTACCAGTTACAATATGCACTGGGTAAAGCAGACA 120
- 121 CGTAGACAGGGCCTGGAATGGATTGGAGCAATTTATCCAGGAAATGGTGATACTTCCTAT 180
- 181 AATCAGAAGTTCAAGGGCAAGGCCACACTGATTGTAGACAAATCCTCCAGCACAGCCTAC 240 ATGCAGCTCAGCAGCCTGACATCTGAAGACTCTGCGGTCTATTTCTGTGCAAGAGAC 298
- 299 GGGGTAACTACGTAGGACATATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCC 357
- 358 TCA 360

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4D

>emb|X64805|MMAIDHCH M.musculus mRNA for anti-Id mAB 114 heavy chain. variable region.

- 1 CAGGCTTATCTACAGCAGTCTGGGGCTGAGCTGGTAAGGCCTGGGTCCTCAGTGAAGATG 60
- 61 TCCTGCAAGGCTTCTGGCTACACATTTACCAGTTACAATATGCACTGGGTAAAGCAGACA
- 121 CCTAGACAGGGCCTGGAATGGATTGGAGCTATTTATCCAGGAAATGGTGATACTTCCTAC 180
- 181 AATCAGAAGTTCAAGGGCAAGGCCACACTGACTGTAGACAAATCCTCCAGCACAGCCTAC 240
- 241 ATGCAGCTCAGCAGCCTGACATCTGAAGACTCTGCGGTCTATTTCTGTGCAAGAGGGGAT 300
- 301 TACTCCGGTAGTATAGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 354

>gb|M17953|MUSIGHXW Mouse Ig rearranged H-chain V-region mRNA VJ1.

- 96 CAGGCTTATCTACAGCAGTCTGGGGCCTGAGCTGAGGCCTGGGGCCTCAGTGAAGATG 155
- TCCTGCAAGGCTTCTGGCTACACATTTACCAGTTACAATATGCACTGGGTAAAGCAGACA 215 156
- 216 CCTAGACAGGGCCTGGAATGGATTGGAGCTATTTATCCAGGAAATGGTGATACTTCCTAC 275
- 276 AATCAGAAGTTCAAGGGCAAGGCCACACTGACTGTAGACAAATCCTCCAGCACAGCCTAC 335 336 ATGCAGCTCAGCAGCCTGACATCTGAAGACTCTGCGGTCTATTTCTGTGCAAGAGTG 392
- 393 ----- 427
- 428 CTGGGGCACAGGGACCACGGTCACCGTCTCC 458

>gb|105921|105921 Sequence 37 from patent EP 0274394.

- 96 CAGGCTTATCTACAGCAGTCTGGGGGCTGAGCTGGTGAGGCCTGGGGCCTCAGTGAAGATG 155
- 156 TCCTGCAAGGCTTCTGGCTACACATTTACCAGTTACAATATGCACTGGGTAAAGCAGACA 215
- 216 CCTAGACAGGGCCTGGAATGGATTGGAGCTATTTATCCAGGAAATGGTGATACTTCCTAC 275
- 276 AATCAGAAGTTCAAGGGCAAGGCCACACTGACTGTAGACAAATCCTCCAGCACAGCCTAC 335
- 336 ATGCAGCTCAGCAGCCTGACATCTGAAGACTCTGCGGTCTATTTCTGTGCAAGAGTG 392
- 393
- 428 CTGGGGCACAGGGACCACGGTCACCGTCTC 457

#### FIG. 5A

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>emb Z223	17 MDIGGVBC	M.domesticus	IgG	variable	region.
-----------	-------------	--------------	-----	----------	---------

- 2 AGGTCCAGCTGCAGCAGTCTGGACCTGAGCTGGTAAAGCCTGGGGCTTCAGTGAAGATAT 61
- 62 CCTGCAAGGCTTCTGGATACACATTCACTGACTACATGCACTGGGTGAAGCAGAAGC
- 182 ATGAGAAGTTCAAGGGYAAGGCCTCACTGACTGCAGACAAATCCTCCAGCACAGCCTACA
- 242 TGCAGCTCAGCAGCCTGACATCTGAGGACTCTGCAGTCTATTTCTGTGCAAGACGTTACT

302 ----- 314

- 315 TGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA 360
- >gb|M15224|MUSIGLAF Mouse IgM H-chain lambda rearranged anti-Dns hybridoma VDJ4 region of J558 family mRNA.
  - 1 CAGGTTCAGCTCCAGCAGTCTGGGGCTGAGCTGGCAAGACCTGGGGCTTCAGTGAAGTTG 60
  - 61 TCCTGCAAGGCTTCTGGCTACACCTTTACTAGCTACTGGATGCAGTGGGTAAAACAGAGG
  - 121 CCTGGACAGGGTCTGGAATGGATTGGGGCTATTTATCCTGGAGATGGTGATACTAGGTAC 180
  - 181 ACTCAGAAGTTCAAGGGCAAGGCCACATTGACTGCAGATAAATCCTCCAGCACAGCCTAC 240
  - 241 ATGCAACTCAGCAGCTTGGCATCTGAGGACTCTGCGGTCTATTACTGTGCAAGAG 295
  - 296 314
  - 315 TGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA 360
- >gb|M15226|MUSIGLAH H-chain lambda rearranged anti-Dns hybridoma VDJ4 region of J558 family mRNA.
  - 1 CAGGTTCAGCTCCAGCAGTCTGGGGCTGAGCTGGCAAGACCTGGGGCTTCAGTGAAGTTG 60
  - 61 TCCTGCAAGGCTTCTGGCTACACCTTTACTAGCTACTGGATGCAGTGGGTAAAACAGAGG 120
  - 121 CCTGGACAGGGTCTGGAATGGATTGGGGCTATTTATCCTGGAGATGGTGATACTAGGTAC 180
  - 181 ACTCAGAAGTTCAAGGGCAAGGCCACATTGACTGCAGATAAATCCTCCAGCACAGCCTAC 240
  - 241 ATGCAACTCAGCAGCTTGGCATCTGAGGACTCTGCGGTCTATTACTGTGCAAGA 294
  - ----- 317 295
  - 318 TGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA 363
- >gb|M15225|MUSIGLAG H-chain lambda rearranged anti-Dns hybridoma VDJ4 region of J558 family mRNA.
  - 1 CAGGTTCAGCTCCAGCAGTCTGGGGCTGAGCTGGCAAGACCTGGGGCTTCAGTGAAGTTG 60
  - 61 TCCTGCAAGGCTTCTGGCTACACCTTTACTAGCTACTGGATGCAGTGGGTAAAACAGAGG
  - 121 CCTGGACAGGGTCTGGAATGGATTGGGGCTATTTATCCTGGAGATGGTGATACTAGGTAC 180
  - 181 ACTCAGAAGTTCAAGGGCAAGGCCACATTGACTGCAGATAAATCCTCCAGCACAGCCTAC 240
  - 241 ATGCAACTCAGCAGCTTGGCATCTGAGGACTCTGCGGTCTATTACTGTGCAAGA 294
  - ----- 311
  - 312 TGCTATGGACTACTGGGGTCÄAGGAACCTCAGTCACCGTCTCCTCA 357
- >gb|M20835|MUSIGKCLP Mouse IgMk rearranged heavy-chain mRNA variable region (V-D-J) anti-DNA autoantibody.
  - 106 CAGGTCCAACTGCAGCAGCCTGGTGCTGAGCTTGTGAAGCCTGGGGCCTCAGTGAAGCTG 165
  - 166 TCCTGCAAGGCTTCTGGCTACACTTTCACCAGCTACTGGATAAACTGGGTGAAGCAGAGG 225
  - 285
  - 286 AATGAGAAGTTCAAGAGCAAGGCCACACTGACTGTAGACACATCCTCCAGCACAGCCTAC
  - 346 ATGCAGCTCAGCAGCCTGACATCTGACGACTCTGCGGTCTATTATTGTGCAAGACG 401
  - . . . . . . . . . . 416
  - 417 TGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA 462

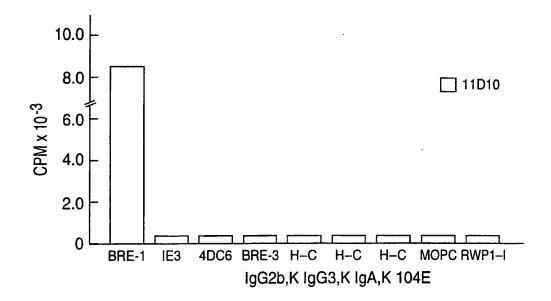


FIG. 6

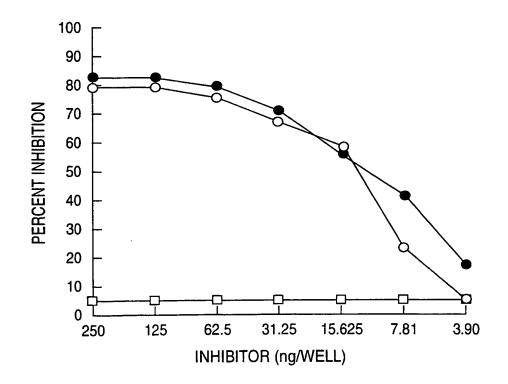
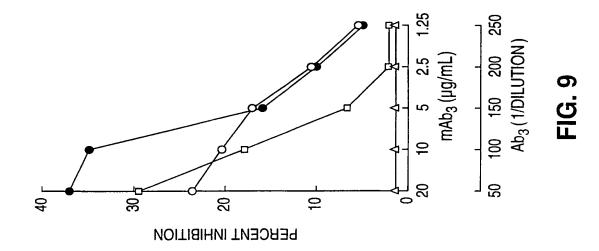
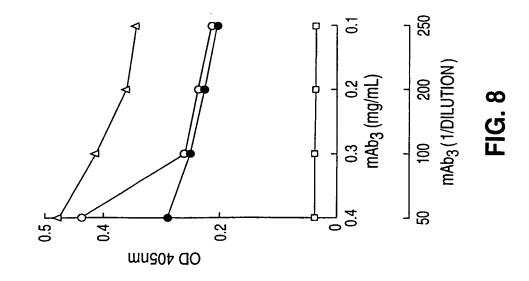


FIG. 7
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**SUBSTITUTE SHEET (RULE 26)** 

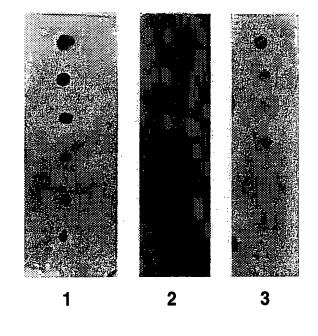


FIG. 10

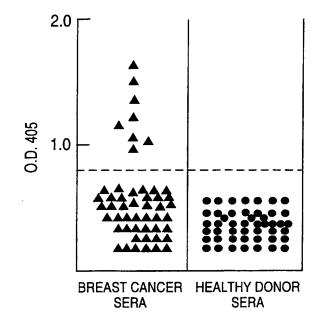


FIG. 11

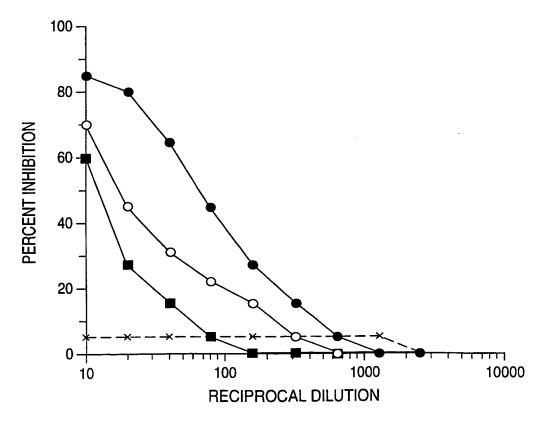


FIG. 12
SUBSTITUTE SHEET (RULE 26)

APPROVED O.G. FIG.

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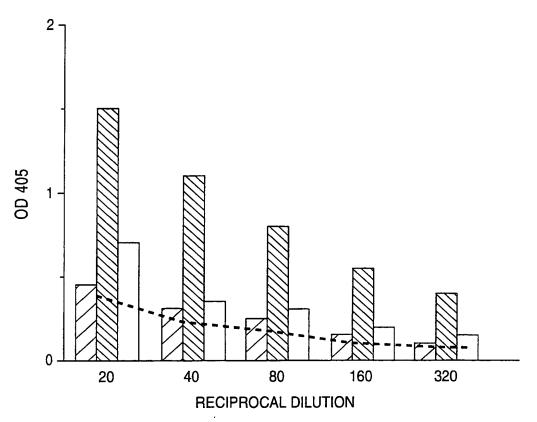


FIG. 13

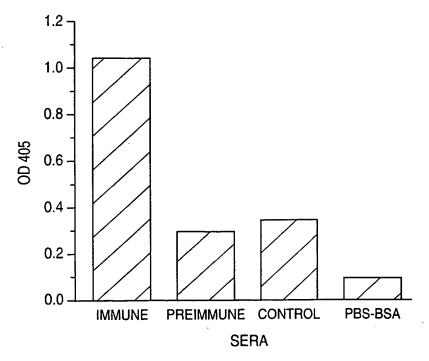


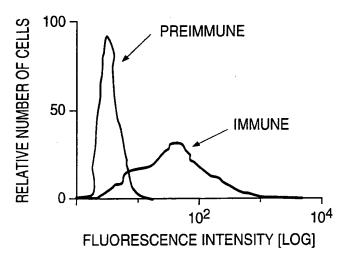
FIG. 14
SUBSTITUTE SHEET (RULE 26)

PROVED O.G. FIG.

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**FIG. 15A** 

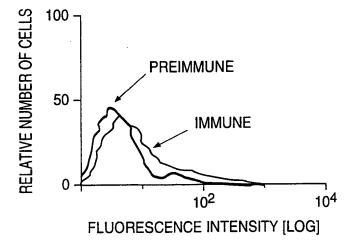


FIG. 15B

APPROVED O.G. FIG.

BY CLASS SUBCLASS

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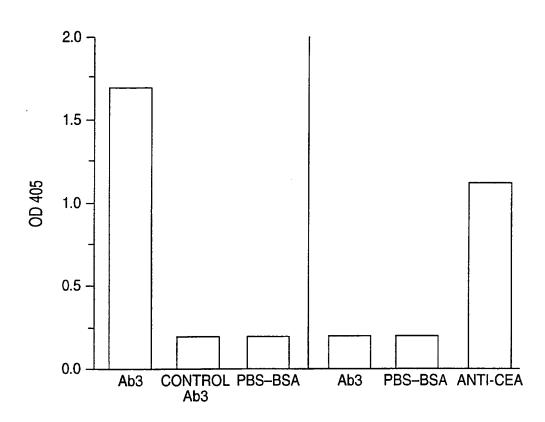


FIG. 16

APPROVED O.G. FIG.

BY CLASS SUBCLAS

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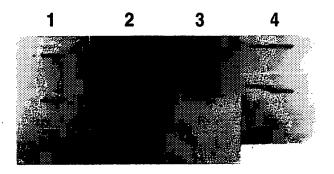


FIG. 17

APPROVED O.G. FIG.

BY CLASS SUBCLAS

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PCT/US96/20757

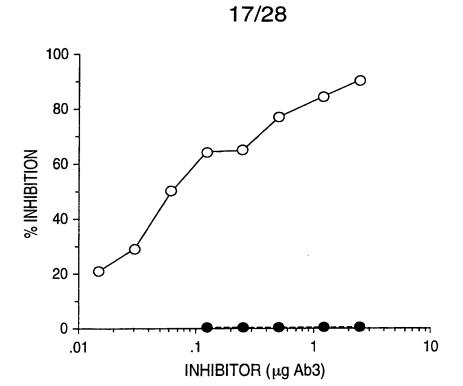


FIG. 18

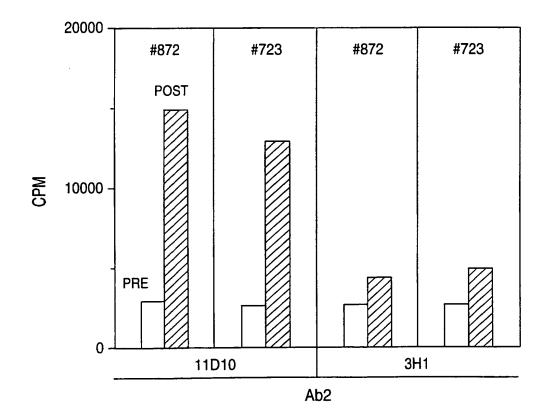


FIG. 19 SUBSTITUTE SHEET (RULE 26)

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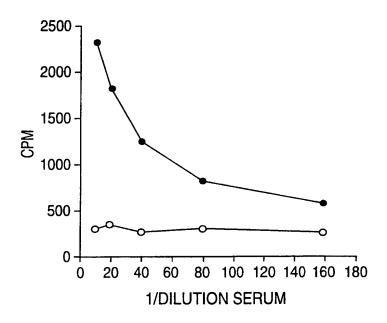


FIG. 20

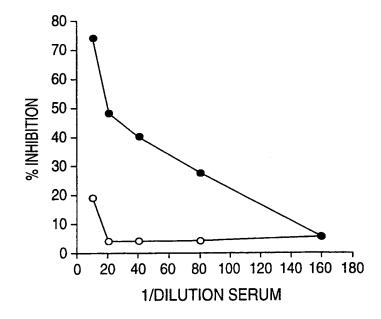


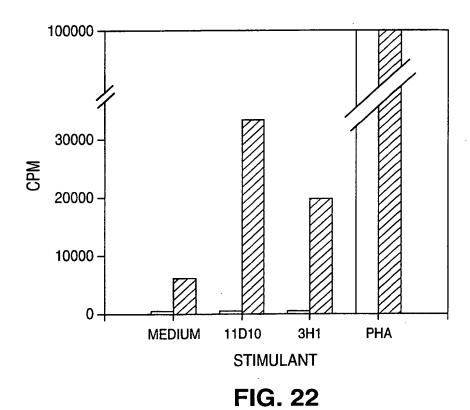
FIG. 21
SUBSTITUTE SHEET (RULE 26)

APPROVED O.G. FIG.

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QGLEWI	GNIFPGN	GDTYYNO	V <sub>H</sub> (NEAR CDR 2)
:	: ::	:	
GSTAPP	R AHGVTSA	PDTRPAP	HMFG REPEAT (DIRECT)
:	1 1	1	,
DGTIKR	LIYATSS	<u>L G S</u> G V P L	V <sub>L</sub> (NEAR CDR 2)
P S E	R	Р	
PAPRTD	PASTVGH	APPATSGPAP	HMFG REPEAT (REV.)
: ! H T L Q Q E		LIYATSSLGS	V <sub>I</sub> (NEAR CDR 2)
:		:::	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
AYYCLO	YASSPYT	FGGGTKLEIK	V <sub>I</sub> (NEAR CDR 2)

FIG. 23

O.G. FIG.

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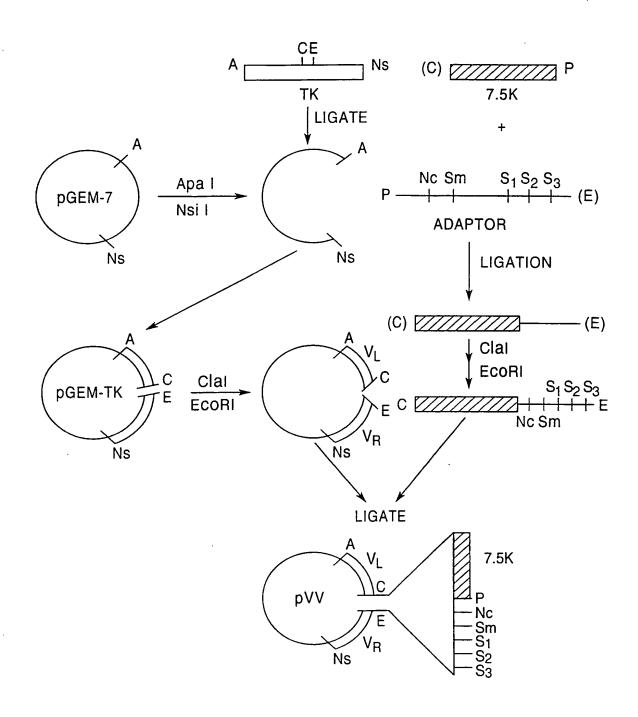
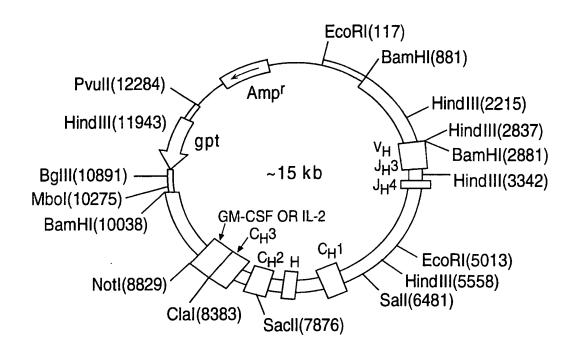


FIG. 24

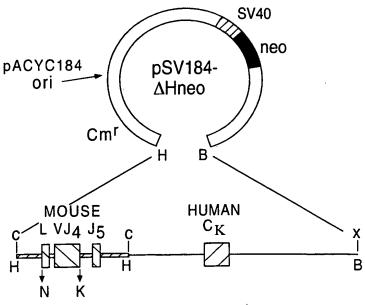
٠;

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**FIG. 25A** 



**FIG. 25B** 

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11D10: 1		DIQMTQSPSSLSASLGQRVSLTCRASQDIGINLHTLQQEPDGTIKRLIYATSSLGSGVPK 60				
2 2 3 4 5 5 6 7 8 9 10 11 12	23 23 23 1 1 1 1 1 1 1 1 1 2	E SS.NW E SS.NW E SS.NW E P SS.NW E SS.NW E SS.NW E SS.NW E RS.NW E RS.NW E E SGY.SW K E SSGY.SW K X E NS.NW E SSGY.SW K X E SGY.SW K E SGY.SW K X E SGY.SW K	DDDDD	82 82 60 59 60 54 60 55 60 73 60		
11D10:	61	RFSGSRSGSDYSLTISSLESEDFVAYYCLQYASSPYTFGGGTKLEIK	107			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	83 83 83 61 60 61 55 60 56 61 74 61 62	D	129 129 129 129 106 106 107 107 106 102 106 120 107 108			

**FIG. 26A** 

	11D10	: 1	QAYLQQSGAELVRSGASVKMSCK	ASGYTLTSYNMHI	<b>V</b> KQTPGQGLEW	IGNIFPGNGD	TYY 60
	1	1	<del></del>	.F	R. <b></b>	A.Y	.S. 60
	2	20	P	F	R	A . Y	.S. 79
	3	1	EVQPKPI	F D.Y	K	E.YS.N	60
	4	1	.IQPPI	F D.YI.	R E	W.YS.N	I.K. 60
	5	1	.VQPKPL	F D TI	S	W.YS.N	I.K. 60
	6	1	. VQ E KP L	F W.	R	K.N.SR	.N. 60
	7	3U	. VQ AKP	F.A.W.	R	. Y.N.NT.Y	.E. 79
	8	1	EVQKPL	FW	R	E.D.SDSY	60
	9	1	.VQEA.P	F.R.W.	R <b>A</b>	A.YS.	.N. 60
	10	1	.VQP.TI	F.N.WLG	R H	D.YG.Y	.N. 60
	11	20	. VQ AKP	FR	R	Y.N.ST.Y	.E. 79
	12	1	. VQAKP	FW	R	Y.N.ST.Y	.E. 60
	13	1	.IQPPI	F.D.YI.	RE	W.YS.N	.K. 60
<b>T</b>	14	1	.VQP.T	AF.N.WIG	RH	D.YG.Y	.N. 60
	15	1	EVQTV.A.P	FW	R	A.YS.	.R. 60
	11D10:	61	NQKFKGKASLTADTSSSTAYMQISS	SLTSEDSAVYFCAR	G <del></del> NWEG <del></del> ALI	)YWGQGTSVTV:	SS 118
i Lj	1	61	TV.KL.		.=DYS.==SI	TL	118
U	2	ደበ	T V K		XXXXXXXXX	. V T T	. 140
	3	61	F K I		xxxxxxx = .M.		120
jj 	4	61	.ETVL.		.==xxx==.M		117
4.11	5	61	.DTMKL.		.=VAR.S=.M	· · · · · · · · · · · · · · · · · · ·	119
-249	6		.ESTV.K		.XXXXXXXXX		139
	7	80	NDIKF	۰۰۰۰۰۰۰۰۰۲۰۱۰ ۷	MY		120
	8 9	61 61		Υ	S=RYR ==SM		119
	10	61	.ETL.	A	P=HYY.=SG	TL	118
	11	80	DTKL.	F Y	xVF	TL	135
	12	61	DT K I	L . Y <b></b>	W = VYYY = .M		118
	13	61	r tv l		==xxx==.M		117
	14	61	F TL.	I . Y	P = FYFY = .M	<i></i>	118
	15	61	KVAEL.	NY.T.	.=GLFTM		115

**FIG. 26B** 

11D10:

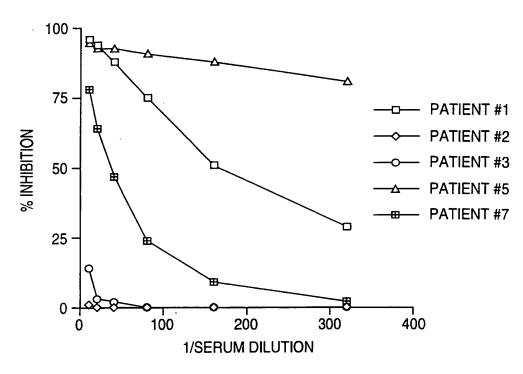
PCT/US96/20757

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# Light Chain VL consensus: 1 DIQMTQSPSSLSASLGERVSLTCRASQDIGSSLNWLQQEPDGTIKRLIYATSSLDSGVPK 60 11D10: GSTAPPAHRVTSAPESRPPP HMFG fragments: ppprs<u>ep</u>as<u>t</u>vrhapp<u>ats</u>g 61 RFSGSRSGSDYSLTISSLESGDFVDYYCLQYASSPYTFGGGTKLEIK 107 VL consensus: 107 11D10: 61 ppprsep<u>as</u>tvrhappa<u>t</u>sg HMFG fragments: Heavy Chain VH consensus: 1 QVQLQQSGAELVRPGASVKMSCKASGYTFTSYWMHWVKQRPGQGLEWIGAIYPGNGDTNY 60 **APDTRPPP** HMFG fragments: VH consensus: 61 NQKFKGKATLTADTSSSTAYMQLSSLTSEDSAVYFCARGxxxGAMDYWGQGTSVTVSS 118

## **FIG. 26C**

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**FIG. 27A** 

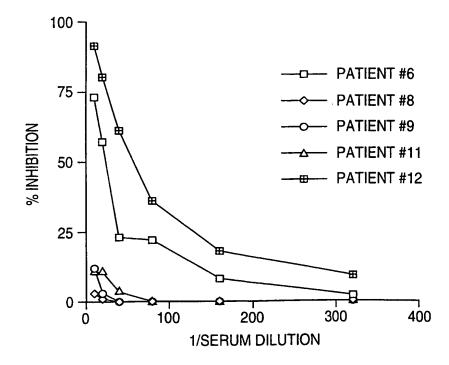
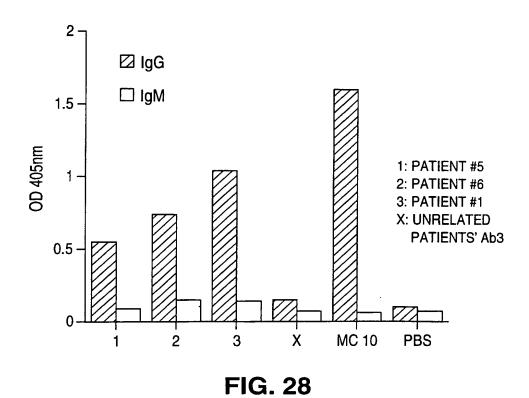


FIG. 27B SUBSTITUTE SHEET (RULE 26)

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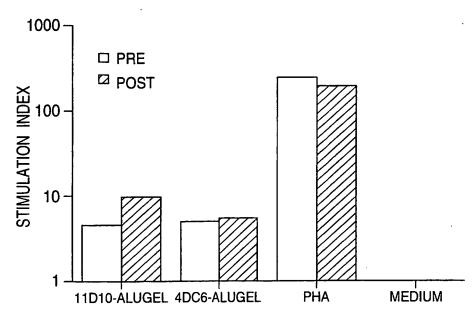


FIG. 29A

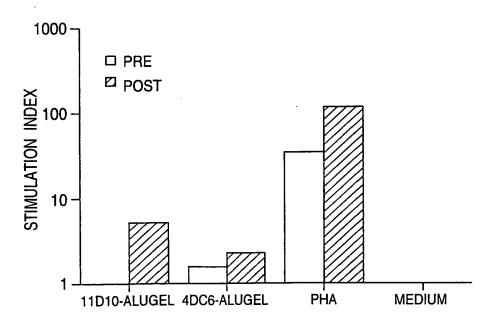


FIG. 29B

SUBSTITUTE SHEET (RULE 26)